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WEEKLY SUMMARY REPORT
USEPA OVERSIGHT, SAUGET AREA 2, SAUGET, ILLINOIS
WA NO. 123-RSBD-05XX/ CONTRACT NO. 68-W6-0025

WEEK ENDING FRIDAY, JUNE 21, 2002

DATES OF CH2M HILL OVERSIGHT:

CH2M HILL provided field oversight of URS activities at the Sauget Area 2 sites from June 17 through June 21, 2002.

WORK PERFORMED THIS WEEK:

URS utilized Innovative Probing Solutions (IPS) of Mt. Vernon, Illinois, to conduct soil gas surveys at Sites O, P, R, and S. Two van-mounted geoprobe rigs equipped with a vacuum system were used to obtain soil gas from the subsurface. The soil gas samples were analyzed with a gas chromatograph.

URS also utilized Roberts Environmental Drilling (Roberts) of Millstadt, Illinois, to conduct alluvial aquifer groundwater sampling at Site O and upgradient of Sauget Area 2. Two geoprobe rigs were used to advance boreholes and collect groundwater samples.

URS utilized Environmental Management Alternative (EMA) of St. Louis, Missouri, to conduct trenching activities at Sites O, Q, and R. A track hoe and skid steer loader was used to excavate the trench. Both URS and EMA personnel suited up in Level B for trenching activities at Site R.

In general, the field methodologies follows those specified in the Support Sampling Plan. Site specific details are described as follows:

Upgradient

- Upgradient alluvial aquifer sample point UAA-01 was advanced from 40' below ground surface (bgs), which was achieved on June 14, 2002, to a refusal depth of 110.5' bgs. URS purged and collected groundwater samples in ten-foot intervals.
- Upgradient alluvial aquifer sample point UAA-02 was advanced from ground surface to a refusal depth of 124' bgs. Groundwater was encountered at 16' bgs. URS purged and collected groundwater samples in ten-foot intervals starting at 20' bgs.

Site O

- URS excavated boundary trenches BT-O-01 through BT-O-03. The boundaries of the waste material were identified during excavation. Silty sediment was observed as the waste material was excavated from the trenches.
- URS completed the soil gas survey at Site O. SG-O-33 and SG-O-39 were not completed because of access issues. No sample was collected from SG-O-21 because shallow water

was encountered at 2' bgs. Soil gas samples were taken from 2.5' bgs at location SG-O-09, 3.5' bgs at SG-O-05 and SG-O-47, and 4' bgs at SG-O-48 and SG-O-49.

- URS identified the soil gas step-out locations at the North and South boundaries. The step-out locations will be sampled on the week of June 24, 2002.
- Alluvial aquifer sample point AA-O-01 was advanced from ground surface to 64' bgs. Groundwater was encountered at 4' bgs. URS purged and collected groundwater samples in ten-foot intervals starting at 16' bgs.
- Alluvial aquifer sample point AA-O-02 was advanced from ground surface to 63' bgs. Groundwater was encountered at 4' bgs. URS purged and collected groundwater samples in ten-foot intervals starting at 13' bgs.

Site P

- URS completed the soil gas survey at Site P. Soil gas survey points SG-P-01 through SG-P-04, SG-P-13, and SG-P-15 were not sampled because of their locations in a ravine running along the eastern edge of the site. Soil gas sample SG-P-30 was not collected because water was encountered at 2' bgs.

Site Q

- URS completed the boundary trench BT-Q-05. The trench was extended to a length of 40', however, no waste materials were identified during excavation.

Site R11

- URS excavated boundary trenches BT-R-01 through BT-R-04. A white crystalline layer was observed in BT-R-01 (approximately 9' bgs) and BT-R-04. Drum remnants were observed in BT-R-02 and BT-R-03.
- URS completed the soil gas survey at Site R.

Site S

- URS completed the soil gas survey at Site S. URS stepped outward to the north (points SG-S-12 through SG-S-14), east (SG-S-15), and south (SG-S-08). URS are waiting for site access clearance to complete step out point(s) to the west.

ISSUES OR PROBLEMS ENCOUNTERED:

- At alluvial aquifer sampling point AA-O-01, URS could not advance beyond 64' bgs because of the lack of driving power of the geoprobe hammer. URS will mobilize the larger geoprobe rig to AA-O-01 to purge and collect groundwater samples at depths greater than 64' bgs.
- URS relocated alluvial aquifer sampling point AA-O-02 from its original location to a location approximately 70' west of AA-O-01 because of site access issues. CH2M HILL requested that AA-O-02 be moved to a location further away from AA-O-01. URS complied and moved AA-O-02 approximately 150' west of AA-O-01.

- Soil gas survey points not completed as previously mentioned were either eliminated or relocated based on agreement between CH2M HILL, John Regan (representing the PRP group), and URS.
- On June 18, URS encountered power lines in the previously located trench BT-Q-05 at Site Q and cut power to an on site office building and conveyor systems. Facility maintenance personnel restored power within 15 minutes and MAC Electrical, Co. repaired the damaged line by the afternoon.
- Based on the workplan, the anomaly trench for each site will be done at the location of the largest magnetic anomaly that coincides with four criteria: 1) a soil gas concentration high; 2) drum or tank disposal locations identified by historical air photo interpretation; 3) an area of high groundwater concentrations as identified by a previous data report; and 4) major anomalies reported in another site investigation report (see workplan for details).

  On June 21, 2002, URS wanted to proceed with the excavation of the anomaly trench in Site R prior to the completion of soil gas sampling. CH2M HILL did not feel that the location of an anomaly trench could be accurately determined until the data specified in the work plan was made available by URS. Therefore, the excavation of the anomaly trench at Site R will be postponed.

WORK SCHEDULED FOR NEXT WEEK:

- One soil gas rig will be mobilized to complete step out locations at Sites O, P, and S.
- Two alluvial aquifer rigs will begin Site S alluvial aquifer sampling points.
- Prosonic will mobilize to Sauget Area 2 to begin bedrock well and piezometer installation.